**Supplementary file 1: Tables**

**Table S1. Segments (FISH) and M-Rep protein (immuno-fluorescence) detection in infected plants**

Macintosh HD:Users:Stèf:Stèf Science-1:paper/ABSTRACT/COURS/CONF:Articles divers:2018:Sicard et al 2018:Sicard-2018-Letter-Nature:Fichier soumis:Extended Data:Sicard-2018-Nature-ExtendedData-Table-1-VFF.pdf

a Code number of individual plants and petioles harvested on these plants

b Time of infection at which the petiole has been harvested, expressed in days post infection

c Segments pair or segment/M-Rep protein detection, identity of x and y is indicated

d Total number of cells in the petiole where at least one of the two analyzed x and y was detected

e Number of cells in the petiole where only x was detected

f Number of cells in the petiole where only y was detected

g Number of cells in the petiole where both x and y were detected

h Ratio of the respective segment’s copy number within a segment pair estimated by qPCR

nt: not tested**Table S2. Oligonucleotides used to prepare segment-specific fluorescent probes**

Macintosh HD:Users:Stèf:Stèf Science-1:paper/ABSTRACT/COURS/CONF:Articles divers:2018:Sicard et al 2018:Sicard-2018-Letter-Nature:Fichier soumis:Extended Data:Sicard-2018-Nature-ExtendedData-Table-2-VFF.pdf

a Name of the primers or oligonucleotide probe

b Sequence of the primer or of the oligonucleotide probe

c Size of the target sequence corresponding to the size of amplicons or oligonucleotide probes

d Identity of the FBNSV genome segment targeted by the probe

e The oligonucleotide probes are described in the Methods section

**Table S3. Confocal microscope settings for acquisition of images shown in the figures**

Macintosh HD:Users:Stèf:Stèf Science-1:paper/ABSTRACT/COURS/CONF:Articles divers:2018:Sicard et al 2018:Sicard-2018-Letter-Nature:Fichier soumis:Extended Data:Sicard-2018-Nature-ExtendedData-Table-3-VFF.pdf

a Numbers and letters correspond to figures and images, respectively

b Single optical section (Plane: P) or a successive series of optical sections (stack: S)

c Number of successive optical sections in the stack

d Thickness of each optical section

e Resolution of the original images, number of division per image is similar for width and length

f Number of bit encoded at image acquisition

g Optical magnification associated to distinct objectives

h Digital zoom magnification

i The acquisition time per pixel is given in s

j Laser strength is given in % of its maximum capacity

k Photomultiplier gain is given in Volts